## FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington D.C. 20549

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STATEMENT OF CHAN	IGES IN BENEFICIAL	<b>OWNERSHIP</b>

OMB APPROVAL

OMB Number: 3235-0287

Estimated average burden hours per response: 0.5

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

1. Name and Address of Reporting Person*  PALETTE DONALD W						2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC [ ACLS ]										all app	licable)	1	Person(s) to Issuer 10% Owner Other (speci	
(Last) (First) (Middle) C/O AXCELIS TECHNOLOGIES, INC. 108 CHERRY HILL DRIVE				3. Date of Earliest Transaction (Month/Day/Year) 07/01/2005									Λ	Seni			elow) Finan			
(Street) BEVERI (City)	.Y M.	Α (	)1915 Zip)		4. If Amendment, Date of Original Filed (Month/Day/Year)							Indivi ne) X	<i>'</i>							
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																				
1. Title of Security (Instr. 3)  2. Transac Date (Month/Date)						Execution Date,		3. Transaction Code (Instr. 8)  4. Securities Acqu Disposed Of (D) (In 5)				nd	5. Amount of Securities Beneficially Owned Following Reported		6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)				
									Code	v	Amount		(A) or (D)	Price	. 1	Transa	ction(s) 3 and 4)			(1130.4)
Common Stock 07/01				1/2005				A	A 31,20		5	A	\$0	\$0 <sup>(1)</sup>		1,205	D			
Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																				
1. Title of Derivative Security (Instr. 3)	rivative Conversion Date Execution Date, curity or Exercise (Month/Day/Year) if any			5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)					9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Owner Form: Direct or Ind (I) (Ins	(D)	11. Nature of Indirect Beneficial Ownership (Instr. 4)				
					Code	v	(A)	(D)	Date Exercisal		Expiration Date	Title	Nun of							

## **Explanation of Responses:**

1. These shares are issuable on restricted stock units granted under the Company's 2000 Stock Plan. 1/3 of the shares will issue upon vesting on each of July 1, 2007, 2008 and 2009, provided the reporting person is employed by Axcelis Technologies, Inc. on those dates. No voting or other stockholder rights attach to the units until the shares are issued.

<u>Lynnette C. Fallon, as attorney-</u> in-fact for Donald Palette

\*\* Signature of Reporting Person Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

- $^{\star}$  If the form is filed by more than one reporting person, see Instruction 4 (b)(v).
- \*\* Intentional misstatements or omissions of facts constitute Federal Criminal Violations See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.